

September 7, 2018

SUSAN LEE
IL OPERATOR CERTIFICATION

The following water/wastewater operator has applied to South Dakota to receive an Operator Certificate thru reciprocity. South Dakota will grant certificates by reciprocity to operators coming from states where their certification program is of a standard not lower than ours and will extend reciprocal privileges to our operators.

Please answer the following questions concerning your operator certification program so that the South Dakota Board of Operator Certification may make a decision at their next Board meeting (September 11, 2018) as to whether certification should be granted.

Name Karl Frederick Merbach

Address 2657 Black Saddle, Rapid City SD ~~57701~~ 57706

605-939-9299

License Held IL Wastewater Treatment Class 1

What is the education requirement (HS graduation, years of post-secondary, etc.) for this license(s)?

What is the work experience requirement for this license(s)?

Was a written exam taken to gain this license(s)? _____

What type of questions is on the exam? _____

What is the minimum score to pass the exam? _____

Is your certification program mandatory? _____

Is this license(s) valid at this time? _____

Will your program grant reciprocity to all South Dakota water and wastewater operators if minimum requirements are met? Note-South Dakota will grant reciprocity on a case-by-case basis. We compare the education/work experience requirements for your certificate with the requirements for our SD certificates. We do NOT review the education/experience of the operator himself. It is also required that your state will grant reciprocity to our operators coming to your state.

Comments _____

Name and title of person completing this form-

Please check which certificates your agency issues-

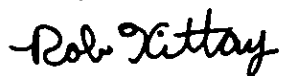
☐ Water Treatment ☐ Water Distribution
☐ Wastewater Treatment ☐ Wastewater Collection

South Dakota's Operator Certification Law can be found at-
<http://legis.sd.gov/statutes/DisplayStatute.aspx?Type=Statute&Statute=34A-3>

Our regulations are contained within- <http://legis.sd.gov/rules/DisplayRule.aspx?Rule=74:21:02>

Feel free to write your answers on this sheet, and please include a copy of your regulations concerning Operator Certification. **Please email or fax your reply if possible.** If there are any questions on this matter, feel free to contact me in Pierre. Thank you for your help.

Sincerely,



Rob Kittay-Secretary
Board of Operator Certification
523 E Capitol
Pierre SD 57501
Phone: 605-773-4208
Fax: 605-773-5286
E-mail: rob.kittay@state.sd.us
Web Site: <http://denr.sd.gov/des/dw/opcertqa.aspx>

4. What are the eligibility requirements for each certification level?

Class 4	1 year wastewater operating experience and high school education or equivalent
Class 3	3 years wastewater operating experience and high school education or equivalent
Class 2	6 years wastewater operating experience and high school education or equivalent
Class 1	8 years wastewater operating experience and high school education or equivalent
Class K	Active supervision and/or operation of an industrial wastewater treatment facility
Operator-In-Training Basic	3 months wastewater operating experience or 1 wastewater course
Operator-In-Training Intermediate	1 year wastewater operating experience
Operator-In-Training Advanced	3 years wastewater operating experience and high school education or equivalent
Collection System Operator	1 year collection system operating experience and high school education or equivalent

SOUTH DAKOTA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

APPLICATION FOR OPERATOR CERTIFICATION THRU RECIPROCITY

INSTRUCTIONS TO APPLICANTS:

Application must be received by the Secretary at least **FOUR WEEKS BEFORE THE NEXT MEETING OF THE BOARD OF OPERATOR CERTIFICATION**. One certificate per application. Fax application to 605-773-5286 or mail application to:

Rob Kittay-Secretary
Board of Operator Certification
523 East Capitol-Foss Building
Pierre, SD 57501-3181

Applications for certification thru reciprocity are reviewed on a case-by-case basis by the Board of Operator Certification. Requirements for the certificate presently held in your state are compared to the requirements for the desired certificate in South Dakota. A copy of the certificate presently held should be included with the application. Each application must be accompanied by a check or money order for \$10.00 made out to "DENR". If you fax application, please submit fee through the mail.

GENERAL INFORMATION (Print legibly and fill out completely):

1. Name Merbach Karl Frederick
Last First Middle
2. Home Mailing Address 2657 Black Saddle Road
3. Phone 605-939-9299 Fax _____
4. Email Address emckarl@aol.com

South Dakota Certificate Desired
(Check only one)

- ☐ Water Treatment
☐ Water Distribution
☒ Wastewater Treatment
☐ Wastewater Collection
☐ Small Water Treatment
☐ Small WW System/
 Stabilization Pond

Certificate Level
(Check only one)

- ☐ I
☐ II
☐ III
☒ IV

5. Certificate Now Held Class 1 Wastewater Treatment Grade 4 From Which State Ill

6. Was an exam passed to acquire this certificate? Check one. Yes ☒ No ☒

7. Is this certificate valid with all fees up-to-date? Check one. Yes ☒ No ☒

EDUCATION AND TRAINING

Are you a high school graduate? Check one. Yes ☒ No ☐ GED ☐ If no, year completed _____

College/Vo-tech Name	Dates Attended	Major	Date Graduated
Northern Illinois University	1988-1991	MA Public Administration	May, 1991
South Dakota State University	19974-1978	BS Microbiology/minor Chemis	May 1978

List other educational courses completed such as correspondence school, operators' short courses, etc. Give date, name, and location of such courses.

Over the 32 years I have participated in and facilitated many operation, maintenance, and leadership trainings at all levels of competency, with safety being a key part of all continuing education. Notable training includes serving as a presenter at a WEF pre-conference workshop in Chicago and participating in specialized training at a workshop in Tennessee on Anaerobic Treatment of High Strength Industrial and Agricultural Waste. Courses completed include all levels of the California O&M courses, safety, activated sludge, disinfection and ammonia removal.

WATER/WASTEWATER OPERATION EXPERIENCE

Present Position Title City of Rapid City- Solid Waste Superintendent Date Employed 2010

Supervisor Name and Title Dale Tech, PWD & Dave Van Cleave- Wastewater Superintendent

Describe in detail your daily duties as related to the exam for which you are applying (Be Specific!)

Operator of record for industrial pretreatment permit discharges to Rapid City sanitary sewer, including sampling and reporting of three leachate discharge points. Other work included direct discharge stormwater facilities, including inspection, monitoring and compliance with NPDES discharge permit. Biosolids treatment and compliance with EPA 503 requirements overseeing compliance to create a Class A biosolids used in composting municipal solid waste organics.

List other job experience which you feel will pertain to your certification qualifications.

Dates	Employer Name/Location	Specific Job Duties Related to Exam Applied For
2007-2010	EMC- Sioux City Iowa Wastewater treatment	Operator of record supervising treatment and pretreatment o
2005-2007	EMC City of Oregon, IL- Water/Wastewater	Oversee operation and maintenance municipal water and wa
2004-2007	EMC City of Fort Wayne, IN Water/Wastewater	Oversee operation and maintenance of surface water treatm

I hereby certify that this application contains no willful misrepresentations or falsifications and that the information given is true and complete.

Signature Karl Merbach

Date 09/07/2018

Oper#	
Cert Date	
Reciprocity Approved Yes <input type="checkbox"/> No <input type="checkbox"/>	
Cash	Check
DENR Use Only	

Environmental Protection Agency

State of Illinois

KARL MERBACH

having fulfilled the requirements therefore, is hereby awarded this

Certificate of Competency

as a

Class 1

Wastewater Treatment Works Operator

qualified to operate Group 1, 2, 3, & 4 wastewater treatment works

Issued this 6TH day of SEPTEMBER A.D. 1983


Director

KARL F. MERBACH

OBJECTIVE

Environmental compliance of public and private properties in a professional and cost-effective manner, with emphasis on fiscal responsibility, regulatory compliance, safety, and service excellence to all customers and stakeholders.

SUMMARY OF PROFESSIONAL EXPERIENCE

2010-2018 **City of Rapid City** Rapid City, SD

Superintendent of Solid Waste Operations

- Responsible for operation and management 450 ton per day landfill, recycling and composting operations and weekly collection of 20,000 including residential curbside collection accounts. Accountability for environmental compliance and regulatory reporting, personnel management staff of 50, safety compliance and training and financial responsibility for \$8.0 million annual budget.

2007-2010 **American Water Enterprises** Sioux City, IA

Facility/Operations Manager- City of Sioux City Wastewater Treatment Facility

- Responsible for management of 30 MGD wastewater plant and pump stations system, including environmental compliance and regulatory reporting, personnel management staff of 23, safety compliance and training and financial responsibility for \$3.0 million annual budget.

1993- 2007 **Environmental Management Corporation** Various Locations

- *EMC Facility Manager- Water and Wastewater Operations, Oregon, IL-* Responsible for management of daily municipal water supply and distribution & 0.7 MGD wastewater plant and collection system, including regulatory reporting, financial management, and client service.
- *EMC Utility Operations Specialist- Interim Facility Manager – Perdue Farms Wastewater Monterey, TN.* Interim management of 0.5 MGD industrial wastewater facility. Responsible for treatment of high strength food production wastewater from poultry processing operation
- *EMC Utility Operations Manager- Ft. Wayne Water Filtration and Wastewater Treatment Ft. Wayne, IN.* Management of 60 MGD secondary wastewater treatment facility and 72 MGD surface water treatment facility. Responsibilities oversight of 9 management and 72 union personnel, regulatory compliance, budget control of \$11 million annual budget.
- *EMC Facility Manager– Swift and Company Beef Wastewater Treatment Facility, Nampa, ID,* Operation and management secondary direct discharge wastewater treatment facility. Management responsibilities include personnel supervision of two full-time operators, NPDES reporting and compliance, client relations, budget administration, and water system compliance.
- *EMC Minnesota Regional Manager– Dairy Farmers of America Wastewater Facility, Fergus Falls, MN.* Operational responsibility of 0.75 MGD industrial pretreatment facility. Duties include daily process control of secondary activated sludge facility, laboratory testing, and maintenance of wastewater facilities for City pretreatment permit compliance.

2657 BLACK SADDLE ROAD, RAPID CITY, SD 57703
PHONE (605) 939-9299 • E-MAIL: EMCKARL@AOL.COM

- *Facilities Manger – City of Evansville Wastewater Operations, Evansville, IN.* Responsible for all Evansville operations including cleaning and maintenance of 470 miles of sanitary and combined sewers, 68 lift stations, 23 CSO's, two secondary Wastewater Treatment Plants (18.0 and 20.6 MGD), and budget planning and administration of \$5.0 million operating budget, administration of 14 management and 60 union staff. Winner of 1999 Burke Safety Award presented by Indiana Water Pollution Control Association.
- *Facilities Manger – City of Monmouth Wastewater Treatment Operations, Monmouth, IL.* Responsible for City of Monmouth 4.2 MGD municipal treatment plant and 1.0 MGD secondary industrial wastewater plant treating waste from 6,000 head per day hog slaughtering operation. Responsible for environmental compliance, employee safety programs, and industrial monitoring.

1982 - 1993 **City of Dixon**

Dixon, IL

Superintendent – City of Dixon Wastewater Operations & Pubic Works Assistant

- Responsible for wastewater operations including 3.8 MGD treatment plant and collection system. Public works responsibilities included one-year interim management of municipal cemetery, development of residential solid waste pick up and municipal landfill programs, and capital planning and project management.

EDUCATION/CERTIFICATIONS

1991 **Northern Illinois University**

DeKalb, IL

Master of Arts - Public Administration

- Emphasis in Urban Management Phi Alpha Alpha Honor Society

1978 **South Dakota State University**

Brookings, SD

B.S. Microbiology/ Minor: Chemistry

- Solid Waste Association of North America- Manager of Landfill Operations Certificate
- Iowa Class IV Wastewater Operator Certificate
- Illinois Class 1 Certificate of Wastewater Competency
- Illinois Class C Certificate of Water Distribution & Treatment Competency
- Idaho Class IV Wastewater Operations Certificate
- Idaho Class 1 Water Operator and Distribution System Operator Certificates
- Minnesota Class A Wastewater Facilities Operator
- Indiana Class IV Wastewater Certificate
- Registered Microbiologist – American Society of Microbiologists
- Six Sigma Greenbelt Certificate- City of Ft. Wayne

PROFESSIONAL MEMBERSHIPS AND COMMUNITY ACTIVITIES

- Member Water Environment Federation
- Member American Water Works Association
- Past Southwest Indiana Executive Board Representative – IWPCA 1996-1998
- Past President Illinois Association of Water Pollution Control Operators 1989-1990
- Past President- South Dakota Solid Waste Association 2015-2016
- Toastmasters International- Distinguished Toastmaster Achievement 2016
- Toastmasters International- Past District Director- 2017-2018
- President- Cosmopolitan Club- Rapid City 2018-2019
- Classroom Volunteer- Junior Achievement of South Dakota 2013-2018
- Big Brother- Big Brother/Big Sisters of the Black Hills 2012-2018

STATE OF IOWA WASTE WATER SYSTEM CERTIFICATE

KARL MERBACH

in accordance with State Law is qualified as an operator in:

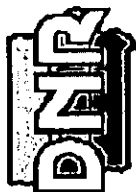
Treatment Grade 4

Operator ID 8303

Given under the hands of the Iowa Department of
Natural Resources on October 17, 2007

FOR THE DIRECTOR:

Lauria L. Shop

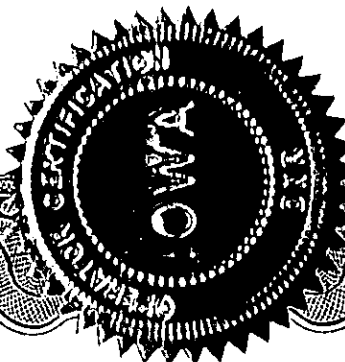


KARL MERBACH
OPERATOR ID # 8303

Waste Water - Treatment - Grade 4

Expiration Date : June 30, 2011

ATTACH RENEWAL CERTIFICATE HERE AFTER EACH
RENEWAL OF YOUR CERTIFICATE



THIS CERTIFICATE REMAINS THE PROPERTY OF THE DEPARTMENT OF NATURAL RESOURCES



STATE OF IDAHO



IDAHO BOARD OF DRINKING WATER AND WASTEWATER PROFESSIONALS

Certifies That

Karl F. Merbach

having documented compliance with the prescribed qualifications, and having fulfilled the requirements of the Laws of Idaho, is hereby granted licensure to practice as a

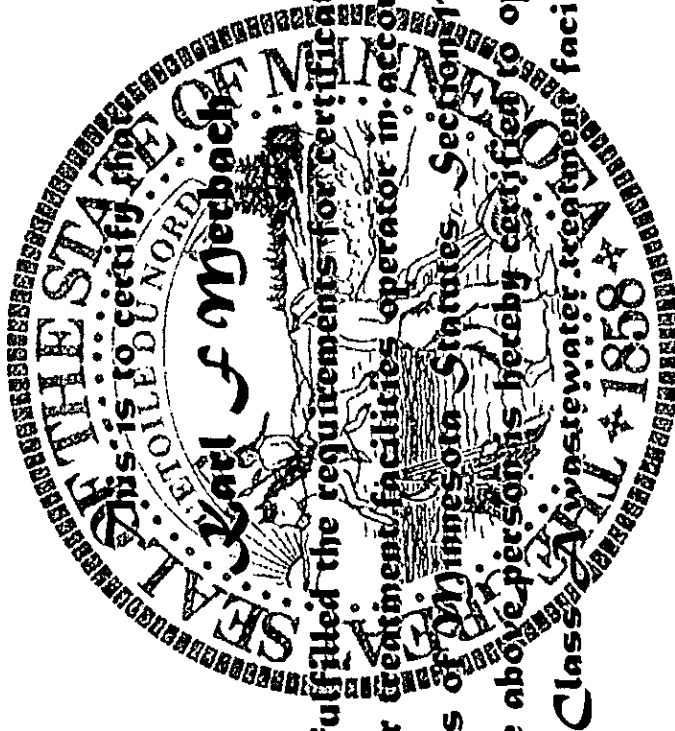
**WASTEWATER OPERATOR
TREATMENT - CLASS IV**
within the State of Idaho

IN TESTIMONY WHEREOF, I have here unto put my hand and affixed the Official Seal of the Bureau of Occupational Licenses at Boise, Idaho, this 1st day of March, A.D. 2004

Paula D. Johnson
CHIEF, BUREAU OF
OCCUPATIONAL LICENSES

MINNESOTA POLLUTION CONTROL AGENCY

WASTEWATER TREATMENT FACILITY OPERATOR CERTIFICATE



has fulfilled the requirements for certification as a
wastewater treatment facilities operator in accordance with the
provisions of Minnesota Statutes, Section 115.71 - 115.77.
The above person is hereby certified to operate a
Class AA Wastewater treatment facility.

Issue Date: 07/01/2000
Expiration Date: 07/01/2003
Certificate Number: A -159392



Karen A. Studders
Karen A. Studders, Commissioner

STATE OF INDIANA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WASTEWATER TREATMENT PLANT OPERATION

CERTIFICATE OF COMPETENCY

THIS CERTIFIES THAT

KARL F. MERBACH

has fulfilled the requirements for certification as a
wastewater treatment plant operator in accordance with
IC-13-1-6, and is hereby certified to operate a

IV

CLASS

WASTEWATER TREATMENT PLANT

No. 13282

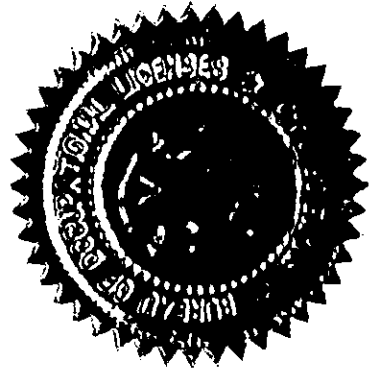
January 25, 1996

Kathy Danner
ENVIRONMENTAL COMMISSIONER

THIS CERTIFICATE IS VALID ONLY WHEN SUBSTANTIATED BY A CURRENT OPERATOR CARD.



STATE OF IDAHO



IDAHO BOARD OF DRINKING WATER AND WASTEWATER PROFESSIONALS

Certifies That

Karl F. Merbach

having documented compliance with the prescribed qualifications, and having fulfilled the requirements of the Laws of Idaho, is hereby granted licensure to practice as a

**DRINKING WATER OPERATOR
DISTRIBUTION - CLASS 1**
within the State of Idaho

IN TESTIMONY WHEREOF, I have here unto put my hand and affixed the Official Seal of the Bureau of Occupational Licenses at Boise, Idaho, this 1st day of March, A.D. 2004

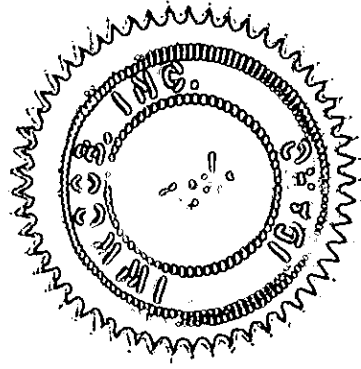
Russell J. Merbach
CHIEF, BUREAU OF
OCCUPATIONAL LICENSES

IDAHO MANDATORY WATER OPERATOR CERTIFICATE

This is to certify that KARL F MERBACH by examination, training and experience
has qualified for a DISTRIBUTION SYSTEM OPERATOR - CLASS I certification

In accordance with the Idaho Rules for Public Drinking Water Systems, IDAPA 58.01.08 effective April
15, 2000 as administered by the Idaho Water and Wastewater Operators Certification Boards, Inc.
relative to Operating Personnel for Public Drinking Water Systems

In testimony whereof Certificate No. 03-277 has been issued the 10th of September, 2003



Terry Werner

Terry Werner, Chairman
Idaho Water & Wastewater
Operators Certification Board, Inc

Urban H Wessels

Urban H Wessels, Executive Director
Idaho Water & Wastewater
Operators Certification Board, Inc

Environmental Protection Agency State of Illinois

KARL F. HERBACH

having fulfilled the requirements therefore, is hereby awarded this
Certificate of Competency

as a

Class

C

Public Water Supply Operator

BY EXAMINATION



No. 5372

Awarded this 12th day of January A.D. 1982

A handwritten signature in cursive script, reading "Richard F. Gahan".

Director

November 5, 2018

CHRIS WISNIEWSKI
OK OPERATOR CERTIFICATION

The following water/wastewater operator has applied to South Dakota to receive an Operator Certificate thru reciprocity. South Dakota will grant certificates by reciprocity to operators coming from states where their certification program is of a standard not lower than ours and will extend reciprocal privileges to our operators.

Please answer the following questions concerning your operator certification program so that the South Dakota Board of Operator Certification may make a decision at their next Board meeting (April 9, 2019) as to whether certification should be granted.

Name Ted Ross Stover

Address 1613 East 19th Avenue, Stillwater OK 74074

License Held Wastewater Works Operator-Class A-#101839

What is the education requirement (HS graduation, years of post-secondary, etc.) for this license(s)?

High School diploma or equivalent

What is the work experience requirement for this license(s)?

Five years of hands on operational experience as a certified operator. 800 hours of DEQ approved training.

Was a written exam taken to gain this license(s)? Yes

What type of questions is on the exam? Multiple choice - Collection, disinfection, safety...

What is the minimum score to pass the exam? 70%

CLASS II
WW

Is your certification program mandatory? Yes

Is this license(s) valid at this time? No, Operator needs to complete 4 hours of annual renewal training

Will your program grant reciprocity to all South Dakota water and wastewater operators if minimum requirements are met? Note-South Dakota will grant reciprocity on a case-by-case basis. We compare the education/work experience requirements for your certificate with the requirements for our SD certificates. We do NOT review the education/experience of the operator himself. It is also required that your state will grant reciprocity to our operators coming to your state.

Yes

Comments _____

Name and title of person completing this form-

Cynthia Morgan - Environmental Program Specialist

Please check which certificates your agency issues-

<input checked="" type="checkbox"/> Water Treatment	<input checked="" type="checkbox"/> Water Distribution
<input checked="" type="checkbox"/> Wastewater Treatment	<input type="checkbox"/> Wastewater Collection

South Dakota's Operator Certification Law can be found at-

<http://legis.sd.gov/statutes/DisplayStatute.aspx?Type=Statute&Statute=34A-3>

Our regulations are contained within- <http://legis.sd.gov/rules/DisplayRule.aspx?Rule=74:21:02>

Feel free to write your answers on this sheet, and please include a copy of your regulations concerning Operator Certification. Please email or fax your reply if possible. If there are any questions on this matter, feel free to contact me in Pierre. Thank you for your help.

Sincerely,

Rob Kittay

Rob Kittay-Secretary
Board of Operator Certification

523 E Capitol

Pierre SD 57501

Phone: 605-773-4208

Fax: 605-773-5286

E-mail: rob.kittay@state.sd.us

Web Site: <http://denr.sd.gov/des/dw/opcertqa.aspx>

SOUTH DAKOTA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

APPLICATION FOR OPERATOR
CERTIFICATION THRU RECIPROCITY

INSTRUCTIONS TO APPLICANTS:

Application must be received by the Secretary at least FOUR WEEKS BEFORE THE NEXT MEETING OF THE BOARD OF OPERATOR CERTIFICATION. One certificate per application. Fax application to 605-773-5286 or mail application to:

Rob Kittay-Secretary
Board of Operator Certification
523 East Capitol-Foss Building
Pierre, SD 57501-3181

PAID
NOV 05 2018
Ck# 26309

Applications for certification thru reciprocity are reviewed on a case-by-case basis by the Board of Operator Certification. Requirements for the certificate presently held in your state are compared to the requirements for the desired certificate in South Dakota. A copy of the certificate presently held should be included with the application. Each application must be accompanied by a check or money order for \$10.00 made out to "DENR". If you fax application, please submit fee through the mail.

GENERAL INFORMATION (Print legibly and fill out completely):

1. Name Stover, Ted Ross
Last First Middle
2. Home Mailing Address 1613 East 19th Ave., Stillwater, Oklahoma 74074
3. Phone 405-747-1911 Fax 405-533-1436
4. Email Address trstover@stovergroup.com

South Dakota Certificate Desired
(Check only one)

- ☐ Water Treatment
☐ Water Distribution
☒ Wastewater Treatment
☐ Wastewater Collection
☐ Small Water Treatment
☐ Small WW System/
Stabilization Pond

Certificate Level
(Check only one)

- ☐ I
☐ II
☐ III
☒ IV

5. Certificate Now Held Class A From Which State Oklahoma
6. Was an exam passed to acquire this certificate? Check one. Yes ☒ No ☐

Chris. Wisniewski @ deq.
ok.gov

7. Is this certificate valid with all fees up-to-date? Check one. Yes ☒ No ☐

EDUCATION AND TRAINING

Are you a high school graduate? Check one. Yes ☒ No ☐ GED ☐ If no, year completed _____

College/Vo-tech Name	Dates Attended	Major	Date Graduated
Oklahoma State University	8/2001 - 5/2007	B.S. Zoology	May 5, 2007
Oklahoma State University	5/2007 - 7/2009	M.S. Environmental Eng.	July 31, 2009
Oklahoma State University	8/2009 - 7/2011	Ph.D. Civil Engineering	July 29, 2011

List other educational courses completed such as correspondence school, operators' short courses, etc. Give date, name, and location of such courses.

5/2013 - Oklahoma Class A Wastewater Works Laboratory Operator Course - Accurate Environmental Training Center, Stillwater, OK
4/2015 - Oklahoma Class A Water Works Operator Course - Rose State College - Midwest City, Oklahoma
2/2015 - Oklahoma Class A Water Works Laboratory Operator Course - Rose State College - Midwest City, Oklahoma

WATER/WASTEWATER OPERATION EXPERIENCE

Present Position Title Vice President

Date Employed 5/2000

Supervisor Name and Title Enos Stover/President

Describe in detail your daily duties as related to the exam for which you are applying (Be Specific!)

Operations Division oversight, operations data analysis, process control instruction and oversight, safety program oversight, SOP development, review, and implementation, QA/QC program maintenance and implementation

List other job experience which you feel will pertain to your certification qualifications.

Dates	Employer Name/Location	Specific Job Duties Related to Exam Applied For
2008-2014	The Stover Group, Stillwater, OK	Operations group oversight, treatability laboratory oversight
2004-2008	The Stover Group, Stillwater, OK	Treatability research, analytical laboratory testing
2000-2004	The Stover Group, Stillwater, OK	Biomonitoring research, analytical laboratory testing

I hereby certify that this application contains no willful misrepresentations or falsifications and that the information given is true and complete.

Signature

Ted Stover

Date

11/2/18

Oper#	
Cert Date	
Reciprocity Approved	Yes <input type="checkbox"/> No <input type="checkbox"/>
Cash	Check <u>PD-26309</u>
DENR Use Only	

Stover + ASSOC

Oklahoma Department of Environmental Quality

License Class A No. 101839

Date Issued May 1, 2015



This is to Certify That

TED R STOVER

has fulfilled the requirements of the Water and Wastewater Works Operators Certification Act and is hereby granted this certificate as a

Certified Wastewater Works Operator

This certificate is valid throughout the State of Oklahoma if renewed by June 30th each year as prescribed by law.

Shelli Howard-McCoy
Water Quality Division Director

Résumé

Dr. Ted Ross Stover, PhD, REP

Education

- B.S., Zoology, Oklahoma State University, 2007
- M.S., Environmental Engineering, Oklahoma State University, 2009
- Ph.D., Civil Engineering, Oklahoma State University, 2011

Registrations & Certifications

- Registered Environmental Professional
- Certified Wastewater Works Operator
 - Oklahoma – Class A
- Certified Wastewater Works Laboratory Operator
 - Oklahoma – Class A
- Certified Water Works Operator
 - Oklahoma – Class A
- Certified Water Works Laboratory Operator
 - Oklahoma – Class A

Professional & Honorary Affiliations

- Water Environment Federation
- Oklahoma Water Environment Association
- American Society of Civil Engineers
- American Academy of Environmental Engineers and Scientists
- Chi Epsilon
- Chi Epsilon Chapter President, 2010
- Magna Cum Laude National Scholars Honor Society
- Golden Key International Honour Society

Honors

- Dr. William D. Hatfield Award
- Burke Safety Award

Professional Experience

- Vice President, THE STOVER GROUP
Stillwater, Oklahoma, 2014 - Present
- Treatability and Process Development Manager, THE STOVER GROUP
Stillwater, Oklahoma, 2008-2014
- Project Scientist, THE STOVER GROUP
Stillwater, Oklahoma, 2004-2008
- Laboratory Technician, THE STOVER GROUP
Stillwater, Oklahoma, 2000-2004

Résumé

Summary of Work Experience

As Vice President of THE STOVER GROUP, Ross Stover manages and directs in THE STOVER GROUP Operations Division, as well as overseeing and directing THE STOVER GROUP Treatability and Analytical Laboratory Testing Facilities. His experience in wastewater treatment and engineering includes operations oversight, wastewater treatment plant startup and operator training, laboratory technician training, pilot-scale treatability studies, bench-scale treatability studies, biomonitoring studies, and analytical testing services.

Ross Stover's Ph.D. research and development project was based on the development of optimized anaerobic reactor design and operations for enhanced and optimized renewable biomethane production of co-digestion utilizing various substrates. His Masters research and thesis focused on biological nitrogen removal at an Oklahoma refinery. His interest in biological nutrient removal has developed as a direct result of previous experience with biological nutrient removal studies.

Technical Papers

1. Lau, A., Pudvay, M., Bradberry, J., D'Alesandro, R., Frank, S., Garaventa, A., Wojciechowski, S., Stover, E., Stover, R., Campana, C., Bernstein, R., and McNamee, H. "Design and Start-up of a Full-scale Biological Selenium Removal System for Flue Gas Desulfurization (FGD) Wastewater from a Power Generating Station," Presented at the 73rd Annual International Water Conference, San Antonio, Texas (November 4-8, 2012).
2. Stover, T.R. and Stover, E.L., "Filamentous Bacteria Identification for Wastewater Treatment Plant Operations," Proceedings of WEFTEC (2014 Workshops #W05 & W19 - Wastewater Microbiology, New Orleans, Louisiana (September 27-28, 2014).

Technical Presentations

1. Stover, T.R. and Stover, E.L., "Filamentous Bacteria Identification for Wastewater Treatment Plant Operations," Proceedings of WEFTEC (Workshops - Wastewater Microbiology, New Orleans, Louisiana (2012, 2014, 2016, 2018), Chicago, Illinois (2013, 2015, 2017).
2. Stover, T.R., "Biological Nutrient Removal Optimization at the City of Enid, Oklahoma Water Reclamation Facility for Industrial Water Reuse," Proceedings of the 2015 APWAOK & OWEA Spring Technical Conference, Oklahoma City, Oklahoma (May 4-6, 2015).
3. Stover, T.R., "Competitive Volatile Fatty Acid Uptake Between Facultative Denitrifying Bacteria and Phosphorus Accumulating Organisms," Proceedings of the 2016 APWAOK & OWEA Spring Technical Conference, Tulsa, OK (May 2-4, 2016).
4. Stover, T.R., "Biological Nutrient Removal Operations and Process Control at the Enid, Oklahoma Water Reclamation Facility," EPA Region 6/State National Inspector/Enforcement Officer Training Workshop, Addison, TX (June 5-7, 2018)

APPENDIX B. CERTIFICATE REQUIREMENTS (252:710-3-35)

**Table 1. WATERWORKS AND WASTEWATER WORKS OPERATORS
CERTIFICATE REQUIREMENTS (252:710-3-35)**

<u>Classes</u>	<u>Experience¹</u>	<u>Training²</u>
<u>Class A</u>	<u>Five years of waterworks or wastewater works operation including two years actual hands-on operating experience</u>	<u>200 hours of approved training, including at least 40 hours of DEQ approved courses in advanced treatment and managerial training or its approved equivalent³</u>
<u>Class B</u>	<u>Three years of waterworks or wastewater works operation including one year actual hands-on operating experience</u>	<u>100 hours of DEQ approved training or its approved equivalent</u>
<u>Class C</u>	<u>(a) For waterworks/wastewater works operators, one year of waterworks or wastewater works operation</u> <u>(b) For distribution/collection operators, one year of distribution/ collection operation</u>	<u>36 hours of DEQ approved training or its approved equivalent</u> <u>36 hours of DEQ approved training or its approved equivalent</u>
<u>Class D</u>	<u>None</u>	<u>16 hours of approved training</u>
<u>Tech</u>	<u>None</u>	<u>8 hours of approved training</u>

(c) **Class D.** Class D certifications are available for:

- (1) Waterworks Operator;
- (2) Wastewater Works Operator; and
- (3) Distribution and Collection Technician.

(d) **Technician.** The DEQ may give oral exams to Distribution and Collection Technicians who are unable to take written exams.

(e) **Temporary.** A person age eighteen (18) or older may apply for temporary certification as a waterworks or wastewater works operator within ten (10) days after being hired or appointed. A temporary certification is valid for one year from the date of employment and is not renewable. Temporary certification is available only to operators required to obtain a Class D certificate but who, because of time restrictions, have been unable to meet the training requirements. Temporary certification is not available to superintendents, assistant superintendents, supervisors, or managers of superintendents who make decisions regarding the daily operational activities of water/wastewater works.

252:710-3-33. Classes of facilities

Waterworks and wastewater works facilities are categorized into classes in Appendix A based on treatment facility complexity and distribution/ collection system complexity.

252:710-3-34. Classes of certifications

(a) **Generally.** Owners shall place the direct supervision of their water/wastewater system or laboratory, including each treatment facility and/or distribution/collection system, under the responsible charge of a manager/superintendent/operator(s) holding a valid certification equal to or greater than the classification of the water/wastewater system or laboratory.

(b) **Operator(s) in Responsible Charge.** The manager/ superintendent/operator(s) in responsible charge or equivalent must hold a valid certification equal to or greater than the classification of their water/wastewater system, including each treatment facility and/or distribution/collection system.

(c) **Assistant superintendents or assistant supervisors.** Assistant superintendents, assistant supervisors, shift leaders or all other supervisors shall be certified at the same class as or one class less than the facility for which they are responsible.

(d) **Others.** All other persons who make decisions regarding the daily operational activities of

- (1) a public water system, water treatment facility and/or distribution system that will directly impact the quality and/or quantity of drinking water;
- (2) a wastewater system, wastewater treatment facility and/or collection system; or
- (3) program or maintain telemetry/SCADA systems and also make process control/system integrity decisions, including assistant superintendents or supervisors, shall be certified at the same class as or one class less than the facility for which they are responsible.

252:710-3-35. Requirements for certification

(a) **Education.** Applicants for certification as a Class A - D waterworks/wastewater works operator shall have a high school diploma or a general equivalency diploma. Experience and/or training may be substituted.

(b) **Experience and training.** Applicants shall comply with the experience and training requirements in Appendix B.

252:710-3-36. Approved equivalents for waterworks/wastewater works operators

(a) **Experience.** One year operational engineering assistance to water or wastewater facilities and an undergraduate degree in biological sciences, biology, engineering, physical science, hydrology, geology, mathematics, environmental science, chemistry, microbiology, toxicology, or civil, chemical, sanitary or environmental engineering or equivalent sciences may be substituted for 5 years experience.

(b) **Training.** For initial certification of waterworks/wastewater works operators, applicants for any operator certification may substitute the following for the training requirements listed in Appendix B:

- (1) **Academic credit.** One (1) semester hour of higher education courses in biological sciences, biology, engineering, physical science, hydrology, geology, mathematics, environmental science, chemistry, microbiology, toxicology, or civil, chemical, sanitary or environmental engineering or equivalent sciences for sixteen (16) hours in the classroom;
- (2) **Presenter credit.** One hour DEQ-approved training course or workshop for four (4) hours training credit;
- (3) **Publication credit.** Publication of one technical article related to water or wastewater in journals or magazines generally accepted in the field for ten (10) hours training credit; and
- (4) **Continuing education credit.** One continuing education unit for ten (10) hours in the classroom.

252:710-3-37. Approved instructor.

The DEQ may establish special requirements for instructors of approved training courses.

- (1) **Standard course.** To be an instructor of a standard course for certification of any type, a person must have at least a C Certification in the subject to be taught and have one of the following:

- (A) have made at least 80% on the exam for the standard course to be taught; or
 - (B) have made at least 80% on exams at a higher type of certification than the course taught.
- Persons who were approved instructors before the effective date of this Chapter are not required to comply with this subsection for the level of instruction approved. To change approved instructor status to a higher level, compliance with this subsection is required.

- (2) **Exemption.** A person who is approved as an instructor before July 1, 2002 pursuant to (1)(B) above, must take the appropriate exam before December 31, 2004 and meet or exceed the scores listed in (1)(A) or (1)(B) of this section.

- (3) **Fees.** For any certified operator, retaking an exam at a class certification level already obtained, for the purposes of becoming an approved instructor, the application fee is waived for the initial time to take the exam. For any subsequent exams, the certified operator shall pay the application fee.

- (4) **Exam Failure.** An applicant who fails to answer at least 80% of the questions correctly may not take the exam again for thirty (30) days.

- (5) **Exam Review.** No instructor will be allowed to review the exam during the six-month period prior to taking the exam.

- (6) **Instruction.** At least four (4) hours of documented instruction must be completed each certificate year to maintain approved instructor status. Each person must retake the exam at least once every four (4) years and obtain a score of 80% or above to retain certification as an approved instructor.

- (7) **Renewal training class.** The teaching by an instructor of a renewal training class shall be deemed as compliance with the continuing education requirement located at 252:710-1-7(c) for the certificate year the class is taught.

252:710-3-38. Reciprocity [REVOKED]

SUBCHAPTER 5. DUTIES AND RESPONSIBILITIES

Section

- 252:710-5-51. Waterworks operator
- 252:710-5-52. Wastewater works operator
- 252:710-5-53. Laboratory operator
- 252:710-5-54. Temporary operator
- 252:710-5-55. Helpers
- 252:710-5-56. Individual recordkeeping
- 252:710-5-57. Responsibility of owners
- 252:710-5-58. Distribution and collection operator
- 252:710-5-59. Distribution and collection technician

Kittay, Rob

Sent: Monday, November 19, 2018 1:24 PM
To: 'trstover@stovergroup.com'
Cc: Mayer, Mark; Buscher, Kelli
Subject: Reciprocity OK to SD
Attachments: TStover(AWW)(OK).pdf; OK License Regulations.pdf; OpCert_EandE.doc

Oklahoma has followed up my request for info on your reciprocity case. As you probably know, the requirements to become a Class A Wastewater operator in OK are-

- 5 years of experience
- High school graduation
- 200 hours of training

I have attached a copy of the requirements for each classification of certification in SD. As you see, the OK Class A most closely resembles our Class II as our Class II requires two yrs of experience plus high school graduation while our Class III requires six yrs of experience plus high school graduation. We do not require specific approved training to get certified as OK does. Plse bear in mind when we consider reciprocity, we do NOT evaluate your education/experience, but do examine the issuing state's requirements. It will be the program's recommendation to the Board at the April 9, 2019 meeting that you receive a Class II WW Treatment certificate.

74:21:02:56. Agreements for reciprocal certification. Certificates of an equivalent grade may be issued, without examination, to any person who holds a certificate in any state, territory, possession of the United States, or any foreign country, or from the Association of Boards of Certification **provided that the education and experience requirements for taking an exam and certification of operators under which the person's certificate was issued do not conflict with the provisions of SDCL 34A-3 and are of a standard not lower than those in this article** and that reciprocal privileges are granted to South Dakota certified operators by the Association of Boards of Certification, state, territory, possession, or country.

Also plse note that your certificate is not valid at this time due to a lack of renewal training.

If you desire a higher level of certification in SD, you are welcome to take any exam that you are qualified for.

Rob Kittay

From: Cynthia Morgan [<mailto:Cynthia.Morgan@deq.ok.gov>]
Sent: Monday, November 19, 2018 10:18 AM
To: Kittay, Rob
Subject: [EXT] Ted Ross Stover #101839

Mr. Kittay,

- Attached is the requested Reciprocity Questionnaire for Mr. Stover. I have attached a copy of the Oklahoma Operator Certification rules and regulations for reference.
If you need anything further please contact me either by phone or e-mail.

Respectfully,

Cynthia Morgan
Environmental Program Specialist
Operator Certification
Water Quality Division, DEQ
(405) 702-8100
Cynthia.Morgan@deq.ok.gov

November 19, 2018

SHERRY MESSICK
TN OPERATOR CERTIFICATION

The following water/wastewater operator has applied to South Dakota to receive an Operator Certificate thru reciprocity. South Dakota will grant certificates by reciprocity to operators coming from states where their certification program is of a standard not lower than ours and will extend reciprocal privileges to our operators.

Please answer the following questions concerning your operator certification program so that the South Dakota Board of Operator Certification may make a decision at their next Board meeting (April 9, 2019) as to whether certification should be granted.

Name Dennis James Burdge

Address 186 Hillview Drive NW, Cleveland TN 37312

License Held TN Wastewater Treatment 3

What is the education requirement (HS graduation, years of post-secondary, etc.) for this license(s)?

High School Diploma or GED

What is the work experience requirement for this license(s)?

Twelve months at Grade III or IV Plant

Was a written exam taken to gain this license(s)? Yes

What type of questions is on the exam? 130 Multiple Choice

What is the minimum score to pass the exam? 70%

CLASS I
WW

Is your certification program mandatory? Yes _____

Is this license(s) valid at this time? Yes _____

Will your program grant reciprocity to all South Dakota water and wastewater operators if minimum requirements are met? Note-South Dakota will grant reciprocity on a case-by-case basis. We compare the education/work experience requirements for your certificate with the requirements for our SD certificates. We do NOT review the education/experience of the operator himself. It is also required that your state will grant reciprocity to our operators coming to your state.

Yes _____

Comments _____

Name and title of person completing this form-
Sherry M. Messick, Certification Program Coordinator

Please check which certificates your agency issues-

X Water Treatment

X Water Distribution

X Wastewater Treatment

X Wastewater Collection

South Dakota's Operator Certification Law can be found at-
<http://legis.sd.gov/statutes/DisplayStatute.aspx?Type=Statute&Statute=34A-3>

Our regulations are contained within- <http://legis.sd.gov/rules/DisplayRule.aspx?Rule=74:21:02>

Feel free to write your answers on this sheet, and please include a copy of your regulations concerning Operator Certification. **Please email or fax your reply if possible.** If there are any questions on this matter, feel free to contact me in Pierre. Thank you for your help.

Sincerely,



Rob Kittay-Secretary
Board of Operator Certification
523 E Capitol
Pierre SD 57501
Phone: 605-773-4208
Fax: 605-773-5286
E-mail: rob.kittay@state.sd.us
Web Site: <http://denr.sd.gov/des/dw/opcertqa.aspx>

SOUTH DAKOTA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

APPLICATION FOR OPERATOR
CERTIFICATION THRU RECIPROCITY

INSTRUCTIONS TO APPLICANTS:

Application must be received by the Secretary at least FOUR WEEKS BEFORE THE NEXT MEETING OF THE BOARD OF OPERATOR CERTIFICATION. One certificate per application. Fax application to 605-773-5286 or mail application to:

Rob Kittay-Secretary
Board of Operator Certification
523 East Capitol-Foss Building
Pierre, SD 57501-3181

Applications for certification thru reciprocity are reviewed on a case-by-case basis by the Board of Operator Certification. Requirements for the certificate presently held in your state are compared to the requirements for the desired certificate in South Dakota. A copy of the certificate presently held should be included with the application. Each application must be accompanied by a check or money order for \$10.00 made out to "DENR". If you fax application, please submit fee through the mail.

GENERAL INFORMATION (Print legibly and fill out completely):

1. Name Burdge Dennis James
Last First Middle
2. Home Mailing Address 186 Hillview Drive NW Cleveland, TN 37312
3. Phone (423) 650-6284 Fax _____
4. Email Address djburdge@stovergroup.com

South Dakota Certificate Desired
(Check only one)

- ☐ Water Treatment
☐ Water Distribution
☒ Wastewater Treatment
☐ Wastewater Collection
☐ Small Water Treatment
☐ Small WW System/
Stabilization Pond

Certificate Level
(Check only one)

- ☐ I
☐ II
☒ III
☐ IV

5. Certificate Now Held Wastewater III From Which State Tennessee
6. Was an exam passed to acquire this certificate? Check one. Yes ☒ No ☐

7. Is this certificate valid with all fees up-to-date? Check one. Yes ☒ No ☐

EDUCATION AND TRAINING

Are you a high school graduate? Check one. Yes ☒ No ☐ GED ☐ If no, year completed _____

College/Vo-tech Name	Dates Attended	Major	Date Graduated
Stockton State College, New Jersey	9/92 - 12/96	Environmental Science	12/96

List other educational courses completed such as correspondence school, operators' short courses, etc. Give date, name, and location of such courses.

1/2018 = OSHA 30-hour @ Nashville, TN; 9/2015 = FEMA emergency preparedness @ Fleming Training Center (FTC) Murfreesboro, TN; 9/2013 = Package Wastewater Treatment Plants, Filamentous Bacteria & Process Control, and Wastewater Microbiology & Process Control were on-line CEU courses; 8/2013 = Wastewater Formulas, Wastewater Operational Tools were on-line CEU courses, 2/2013 = Course #4101 (dewatering demo and Lab QA/QC) @ FTC, 9/2011 = BioAugmentation, Activated Sludge I, II, III, IV, and Sludge Conditioning/dewatering on-line CEU

WATER/WASTEWATER OPERATION EXPERIENCE

Present Position Title Operations Group Manager/Safety Director Date Employed 10/1997 - present

Supervisor Name and Title Ross Stover Vice-President

Describe in detail your daily duties as related to the exam for which you are applying (Be Specific!)

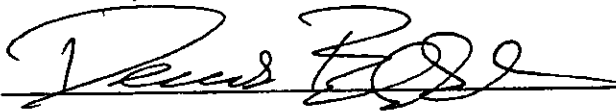
I spend approximately 40% of my day assisting various plants with process control decisions such as: adjusting WAS rates, chemical conditioning in DAF units for both process wastewater and sludge thickening and sludge dewatering processes, balancing flow rates to maintain a f/m range, advising operators in nutrient (N and P) dosing rates in nutrient deficient wastewater, adjusting flows to secondary clarifiers. Approximately 20% of my day is spent on reporting to clients and personnel within my company on the operations of various treatment plants. About 40% of my time is spent on assessing safety at the various plants and keeping up to date on the latest safety requirements and training.

List other job experience which you feel will pertain to your certification qualifications.

Dates	Employer Name/Location	Specific Job Duties Related to Exam Applied For
May 2017	The Stover Group/Richland, Washington	Start-up of a 29,000,000 gallons anaerobic treatment system
Summer 2016	The Stover Group/Allentown, PA	Start-up of a primary treatment system consisting of flow eq
January 2016 - Present	The Stover Group/Portland, TN	I have provided a client advice and training for their operat

I hereby certify that this application contains no willful misrepresentations or falsifications and that the information given is true and complete.

Signature



Date 11/16/2018

Oper#	
Cert Date	
Reciprocity Approved	Yes <input type="checkbox"/> No <input type="checkbox"/>
Cash	Check
DENR Use Only	

(Rule 0400-49-01-.09, continued)

2. An applicant must have a high school education or equivalent, must have sixty (60) months of operating experience at a Grade III or a Grade IV Wastewater Treatment plant, and must satisfactorily complete a written examination. Within the discretion of the Board, college course work in related science or engineering courses satisfactorily completed, or Board sanctioned comprehensive training in chemistry, bacteriology, and the fundamentals of wastewater treatment satisfactorily completed through schools for operators, correspondence courses, or other special training, may be credited toward the required operating experience to a maximum equivalency of thirty-six (36) months.
3. To receive full time operating experience credit, a minimum of 100% of the activities must be work experience duties. The Board reserves the right to adjust calendar months of experience to a reduced number of months of experience where it is obvious that an applicant's experience routinely includes other duties. The Board encourages documented apprenticeship training programs and classroom training provided by the employer to better prepare an operator to make decisions in plant operation to assure public health protection.

(b) Grade III Wastewater Treatment Plant Operator

1. An applicant must have a high school education or equivalent, must have twelve (12) months of operating experience at a Grade II wastewater treatment plant or a Grade III wastewater treatment plant, and must satisfactorily complete a written examination. Board sanctioned comprehensive training in chemistry, bacteriology, and the fundamentals of wastewater treatment satisfactorily completed through schools for operators, correspondence courses, or other special training programs may be credited toward the required operating experience to a maximum equivalency of three (3) months.
2. To receive full time operating experience credit, a minimum of 50% of the activities must be work experience duties.

(c) Grade II Wastewater Treatment Plant Operator

1. An applicant must have a high school education or equivalent, must have twelve (12) months of operating experience at a Grade I wastewater treatment plant or a Grade II wastewater treatment plant, and must satisfactorily complete a written examination. Board sanctioned comprehensive training in chemistry, bacteriology, and the fundamentals of wastewater treatment satisfactorily completed through schools for operators, correspondence courses, or other special training programs may be credited toward the required operating experience to a maximum equivalency of three (3) months.
2. To receive full time operating experience credit, a minimum of 33% of the activities must be work experience duties.

(d) Grade I Wastewater Treatment Plant Operator

1. An applicant must have a high school education or equivalent, must have twelve (12) months of operating experience in a Grade I wastewater treatment plant or twelve (12) months operating experience at a biological/natural system and six (6) months at a Grade I wastewater treatment plant, and must satisfactorily complete a written examination. Board sanctioned comprehensive training in chemistry, bacteriology, and the fundamentals of wastewater treatment satisfactorily completed through schools for operators, correspondence courses,

Kittay, Rob

To: Dennis Burdge (djburdge@stovergroup.com)
Subject: FW: [EXT] Reciprocity Request--TN to SD
Attachments: Reciprocity inquiry_TN_Burdge.doc; OpCert_EandE.doc

Tennessee has already followed up my request for info on your reciprocity case. As you probably know, the requirements to become a Class 3 Wastewater operator in TN are-

- 12 months of experience at a Class III or IV plant
- High school graduation

I have attached a copy of the requirements for each classification of certification in SD. As you see, the TN Class 3 most closely resembles our Class I as our Class I requires one yr of experience plus high school graduation. Plse bear in mind when we consider reciprocity, we do NOT evaluate the operator's education/experience, but do examine the issuing state's requirements. It will be the program's recommendation to the Board at the April 9, 2019 meeting that you receive a Class I WW Treatment certificate.

74:21:02:56. Agreements for reciprocal certification. Certificates of an equivalent grade may be issued, without examination, to any person who holds a certificate in any state, territory, possession of the United States, or any foreign country, or from the Association of Boards of Certification **provided that the education and experience requirements for taking an exam and certification of operators under which the person's certificate was issued do not conflict with the provisions of SDCL 34A-3 and are of a standard not lower than those in this article** and that reciprocal privileges are granted to South Dakota certified operators by the Association of Boards of Certification, state, territory, possession, or country.

If you desire a higher level of certification in SD, you are welcome to take any exam that you are qualified for.

Rob Kittay

From: Sherry Messick [<mailto:Sherry.Messick@tn.gov>]
Sent: Monday, November 19, 2018 10:05 AM
To: Kittay, Rob
Subject: RE: [EXT] Reciprocity Request--TN to SD

Attached is Mr. Burdge's questionnaire and a copy of our rules. Please let me know if you need additional information.
Sherry



Sherry Messick – Certification Program Coordinator
Water and Wastewater Operator Certification Board - Fleming Training Center
2022 Blanton Drive
Murfreesboro, TN 37129

Office: (615) 898-6503
Fax: (615) 898-8064
sherry.messick@tn.gov

From: Kittay, Rob [<mailto:Rob.Kittay@state.sd.us>]
Sent: Monday, November 19, 2018 9:12 AM
To: Sherry Messick
Subject: Reciprocity Request--TN to SD

*** This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. - STS-Security***

A certified operator from your state has applied for certification thru reciprocity in SD. Plse complete and return the attached inquiry so that the SD Board of Operator Certification can make a determination on this case at its next meeting on April 9, 2019.

Thanx!!!

Rob Kittay

South Dakota Board of Operator Certification and

Drinking Water Program

605-773-4208 Phone

605-773-5286 Fax

OpCert Web Site- <http://denr.sd.gov/des/dw/opcertqa.aspx>

Rob Kittay
South Dakota Board of Operator Certification and
Drinking Water Program
605-773-4208 Phone
605-773-5286 Fax
OpCert Web Site- <http://denr.sd.gov/des/dw/opcertqa.aspx>

February 22, 2019

REBECCA MCMONIGLE
IN OPERATOR CERTIFICATION

The following water/wastewater operator has applied to South Dakota to receive an Operator Certificate thru reciprocity. South Dakota will grant certificates by reciprocity to operators coming from states where their certification program is of a standard not lower than ours and will extend reciprocal privileges to our operators.

Please answer the following questions concerning your operator certification program so that the South Dakota Board of Operator Certification may make a decision at their next Board meeting (April 9, 2019) as to whether certification should be granted.

Name Stephen Ray Morgan

Address 5815 West 1000 South, Edinburgh IN 46124

License Held Wastewater Operator Class D-#WW018080 and Class IV-#WW019138

What is the education requirement (HS graduation, years of post-secondary, etc.) for this license(s)?

Class D + Class IV require a college degree with a major in a science curriculum or an associate's degree in a curriculum related to wastewater treatment. (substitution of additional experience allowed).

What is the work experience requirement for this license(s)?

5 years at a Class C, Class III or higher level facility with 2 years of responsible charge experience.

Was a written exam taken to gain this license(s)? yes

What type of questions is on the exam? 100 questions, multiple choice

What is the minimum score to pass the exam? 70%

Class IV
WW

Is your certification program mandatory? yes

Is this license(s) valid at this time? yes

Will your program grant reciprocity to all South Dakota water and wastewater operators if minimum requirements are met? Note-South Dakota will grant reciprocity on a case-by-case basis. We compare the education/work experience requirements for your certificate with the requirements for our SD certificates. We do NOT review the education/experience of the operator himself. It is also required that your state will grant reciprocity to our operators coming to your state.

Yes

Comments Indiana will grant reciprocity on a case-by-case basis with States who have comparable certification rules.

Name and title of person completing this form-

Rebecca McMonigle
Certification Director

Please check which certificates your agency issues-

☐ Water Treatment (Drinking Water Branch) ☐ Water Distribution (Drinking Water Branch)
☒ Wastewater Treatment ☐ Wastewater Collection

South Dakota's Operator Certification Law can be found at-

<http://legis.sd.gov/statutes/DisplayStatute.aspx?Type=Statute&Statute=34A-3>

Our regulations are contained within- <http://legis.sd.gov/rules/DisplayRule.aspx?Rule=74:21:02>

Feel free to write your answers on this sheet, and please include a copy of your regulations concerning Operator Certification. Please email or fax your reply if possible. If there are any questions on this matter, feel free to contact me in Pierre. Thank you for your help.

Sincerely,

Rob Kittay

Rob Kittay-Secretary
Board of Operator Certification
523 E Capitol
Pierre SD 57501

Phone: 605-773-4208

Fax: 605-773-5286

E-mail: rob.kittay@state.sd.us

Web Site: <http://denr.sd.gov/des/dw/opcertqa.aspx>

SOUTH DAKOTA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

APPLICATION FOR OPERATOR
CERTIFICATION THRU RECIPROCITY

PAID

FEB 22 2019

Ck# 4459

INSTRUCTIONS TO APPLICANTS:

Application must be received by the Secretary at least FOUR WEEKS BEFORE THE NEXT MEETING OF THE BOARD OF OPERATOR CERTIFICATION. One certificate per application. Fax application to 605-773-5286 or mail application to:

Rob Kittay-Secretary
Board of Operator Certification
523 East Capitol-Foss Building
Pierre, SD 57501-3181

Applications for certification thru reciprocity are reviewed on a case-by-case basis by the Board of Operator Certification. Requirements for the certificate presently held in your state are compared to the requirements for the desired certificate in South Dakota. A copy of the certificate presently held should be included with the application. Each application must be accompanied by a check or money order for \$10.00 made out to "DENR". If you fax application, please submit fee through the mail.

GENERAL INFORMATION (Print legibly and fill out completely):

1. Name Morgan, Stephen Ray
Last First Middle

2. Home Mailing Address 5815 west, 1000 south, Edinburgh, In. 46124

3. Phone 317-370-2400 Fax _____

4. Email Address Stephen.Morgan@veolia.com

South Dakota Certificate Desired
(Check only one)

- ☐ Water Treatment
☐ Water Distribution
☒ Wastewater Treatment
☐ Wastewater Collection
☐ Small Water Treatment
☐ Small WW System/
Stabilization Pond

Certificate Level
(Check only one)

- ☐ I
☐ II
☐ III
☒ IV

5. Certificate Now Held Class 4/ Class D From Which State indiana

6. Was an exam passed to acquire this certificate? Check one. Yes ☒ No ☐

7. Is this certificate valid with all fees up-to-date? Check one. Yes ☒ No ☐

EDUCATION AND TRAINING

Are you a high school graduate? Check one. Yes ☒ No ☐ GED ☐ If no, year completed _____

College/Vo-tech Name	Dates Attended	Major	Date Graduated
Ivy Tech	2005 to 2007	Assoc applied Science	12/19/2007

List other educational courses completed such as correspondence school, operators' short courses, etc. Give date, name, and location of such courses.

Registered Industrial Wastewater Professional- Master Class-----April, 2016
Stationary Engineer.....2005

WATER/WASTEWATER OPERATION EXPERIENCE

Present Position Title Wastewater Specialist Date Employed July, 2017

Supervisor Name and Title Michael Giffen Senior Account Manager

Describe in detail your daily duties as related to the exam for which you are applying (Be Specific!)

Operate various types of water and wastewater plants for contracted accounts, i.e. Dafs, Clarifier systems, oil and water seperators, activitated sludge. testing of cod, phenols, ammonia, phosphrus, oil and grease, metals, zinc, moly, copper. adjust chemicals such as polymer, ferric oxide caustic, hydrated lime, perform jar testing to ensure plant runs at optminim performance.

List other job experience which you feel will pertain to your certification qualifications.

Dates	Employer Name/Location	Specific Job Duties Related to Exam Applied For
1999 to 2017	Ryobi Diecast, 800 masuleum rd, shelbyville, IN	Repair all wastewater equipment, 2 100,000 gpd lamilla c

I hereby certify that this application contains no willful misrepresentations or falsifications and that the information given is true and complete.

Signature



Date

2/4/2019

Oper#	12766
Cert Date	
Reciprocity Approved	Yes <input type="checkbox"/> No <input type="checkbox"/>
Cash	Check PD 4459
DENR Use Only	



Department of Environmental Management
Office of Water Quality - IGCN Room 1255
100 N. Senate Ave.
Indianapolis, Indiana 46204-2251

Wastewater Operator Class D

Certification Number	Effective Date
WW018080	07/01/2018

Stephen R. Morgan

Certificate of Competency

This certifies that the person named above has fulfilled the requirements for certification as a wastewater treatment plant operator in accordance with IC 13-18-11 and is hereby certified as a Wastewater Operator Class D.

Bruno L. Pigott
Commissioner



Department of Environmental Management
Office of Water Quality - IGCN Room 1255
100 N. Senate Ave.
Indianapolis, Indiana 46204-2251

Wastewater Operator Class IV

Certification Number	Effective Date
WW019138	07/01/2018

Stephen R. Morgan

Certificate of Competency

This certifies that the person named above has fulfilled the requirements for certification as a wastewater treatment plant operator in accordance with IC 13-18-11 and is hereby certified as a Wastewater Operator Class IV.

Bruno L. Pigott
Commissioner



Department of Environmental Management
Office of Water Quality - IGCN Room 1255
100 N. Senate Ave.
Indianapolis, IN 46204-2251

Wastewater Operator Class IV

Certification#	Effective Date	Expiration Date
WW019138	07/01/2018	06/30/2021

Stephen R. Morgan



Department of Environmental Management
Office of Water Quality - IGCN Room 1255
100 N. Senate Ave.
Indianapolis, IN 46204-2251

Wastewater Operator Class D

Certification#	Effective Date	Expiration Date
WW018080	07/01/2018	06/30/2021

Stephen R. Morgan

INDUSTRIAL WASTEWATER PRETREATMENT PROGRAMS AND NPDES

employer; and

(C) is the result of satisfactory accomplishment of wastewater treatment plant work.

(d) In accordance with 327 IAC 8-12-3.2(e), a grade WT3, WT4, and WT5 operator shall be considered to have met the educational and experience requirements necessary to apply for the appropriate wastewater treatment certification to treat wastewater from a water treatment plant provided the operator is certified to operate that classification of water treatment plant. *(Water Pollution Control Division; 327 IAC 5-22-7; filed Nov 20, 2000, 4:07 p.m.: 24 IR 965; readopted filed Aug 17, 2006, 10:31 a.m.: 20060830-IR-327060183BFA; filed Mar 18, 2008, 2:55 p.m.: 20080416-IR-327060179FRA; readopted filed Jul 30, 2014, 4:04 p.m.: 20140827-IR-327140189BFA)*

327 IAC 5-22-7.3 Educational and experience requirements necessary for a certified operator

Authority: IC 13-14-8; IC 13-18-11-3; IC 13-18-11-13

Affected: IC 13-18-11

Sec. 7.3. Educational and experience requirements necessary to become a certified operator in each of the classes of wastewater treatment plants are as follows:

(1) Class I-SP and Class A-SO certified operator applicants must have attained the following:

(A) A high school diploma or equivalent education.

(B) Six (6) months of acceptable experience in a wastewater treatment plant.

(2) Class I and Class A certified operator applicants must have attained the following:

(A) A high school diploma or equivalent education.

(B) One (1) year of acceptable experience at a wastewater treatment plant.

(3) Class II and Class B certified operator applicants must have attained the following:

(A) A high school diploma or equivalent education.

(B) Three (3) years of acceptable experience at a wastewater treatment plant.

(4) Class III and Class C certified operator applicants must have attained the following:

(A) A high school diploma or equivalent education.

(B) Three (3) years of acceptable experience at a wastewater treatment plant of one (1) or more of the following classes:

(i) Class II.

(ii) Class III.

(iii) Class IV.

(iv) Class B.

(v) Class C.

(vi) Class D.

(C) Two (2) years of the three (3) years experience required by clause (B) must be in a position of responsible charge operator at a wastewater treatment plant of one (1) or more of the following classes:

(i) Class II.

(ii) Class III.

(iii) Class IV.

(iv) Class B.

(v) Class C.

(vi) Class D.

In Class III and Class C plants, the individual supervising and responsible for a major section of the plant or an operating shift may be credited with experience as responsible charge operator for the purpose of applying to take the certification examination.

(5) Class IV and Class D certified operator applicants must have attained the following:

(A) One (1) or more of the following educational degrees:

(i) A bachelor's degree with a major in an engineering, chemistry, or biological science curriculum.

(ii) An associate's degree in a curriculum related to wastewater treatment.

INDUSTRIAL WASTEWATER PRETREATMENT PROGRAMS AND NPDES

(B) Five (5) years of acceptable experience at a wastewater treatment plant of one (1) or more of the following classes:

- (i) Class III.
- (ii) Class IV.
- (iii) Class C.
- (iv) Class D.

(C) Two (2) years of the five (5) years experience required by clause (B) must be in a position of responsible charge operator at a wastewater treatment plant of one (1) or more of the following classes:

- (i) Class III.
- (ii) Class IV.
- (iii) Class C.
- (iv) Class D.

In Class IV and Class D plants, the individual supervising and responsible for a major section of the plant or an operating shift may be credited with experience as responsible charge operator for the purpose of applying to take the certification examination.

(Water Pollution Control Division; 327 IAC 5-22-7.3; filed Mar 18, 2008, 2:55 p.m.; 20080416-IR-327060179FRA; readopted filed Jul 30, 2014, 4:04 p.m.; 20140827-IR-327140189BFA)

327 IAC 5-22-7.5 Application of a wastewater treatment apprentice to become a certified wastewater treatment operator

Authority: IC 13-14-8; IC 13-18-11-3; IC 13-18-11-13

Affected: IC 13-18-11

Sec. 7.5. (a) A wastewater treatment apprentice shall fulfill the following requirements in order to become a wastewater treatment certified operator:

- (1) Meet the educational and experience requirements in section 7.3 of this rule that are applicable to the class of wastewater treatment certified operator the wastewater treatment apprentice is applying to become.
- (2) Fulfill the continuing education credit requirement in section 15(b) of this rule.
- (3) Complete a certification application on a form approved by the commissioner that:
 - (A) contains true and accurate information to the best of the wastewater treatment apprentice's knowledge; and
 - (B) is free of omissions and misrepresentations, either of which may result in rejection of the application or revocation of any certificate previously granted.
- (4) Submit a completed certification application, with the necessary fee, to the commissioner not later than six (6) years after the date of successfully completing the wastewater treatment certification examination.

If a wastewater treatment apprentice does not fulfill the requirements of this subsection and receive certification as a wastewater treatment operator, then the person must retake the commissioner's wastewater treatment certification examination in order to apply for the wastewater treatment operator certification under this section.

(b) The commissioner shall do the following:

- (1) Review a certification application and supporting documents and make a decision concerning the eligibility of a wastewater treatment apprentice for wastewater treatment operator certification.
- (2) Issue a wastewater treatment operator certificate designating competency in the appropriate wastewater treatment classification to each wastewater treatment apprentice who:
 - (A) makes complete and timely application;
 - (B) meets the necessary requirements of education, experience, and continuing education; and
 - (C) has successfully completed a wastewater treatment class appropriate examination.

(Water Pollution Control Division; 327 IAC 5-22-7.5; filed Mar 18, 2008, 2:55 p.m.; 20080416-IR-327060179FRA; readopted filed Jul 30, 2014, 4:04 p.m.; 20140827-IR-327140189BFA)

327 IAC 5-22-8 Certified operator classification eligible to operate class or classes of wastewater treatment plants

Authority: IC 13-14-8; IC 13-18-11-3; IC 13-18-11-13

Affected: IC 13-18-11

February 20, 2019

RUBY KESLAR
IN OPERATOR CERTIFICATION

The following water/wastewater operator has applied to South Dakota to receive an Operator Certificate thru reciprocity. South Dakota will grant certificates by reciprocity to operators coming from states where their certification program is of a standard not lower than ours and will extend reciprocal privileges to our operators.

Please answer the following questions concerning your operator certification program so that the South Dakota Board of Operator Certification may make a decision at their next Board meeting (April 9, 2019) as to whether certification should be granted.

Name James Larry Waldroup

Address 3981 East 500 South, Greenfield IN 46140

License Held Wastewater Operator Class C-#WW009796

What is the education requirement (HS graduation, years of post-secondary, etc.) for this license(s)?

High School diploma or GED

What is the work experience requirement for this license(s)?

3 years of experience at a Class B, Class II or higher level facility AND 2 years of responsible charge experience

Was a written exam taken to gain this license(s)? yes

What type of questions is on the exam? 100 questions, multiple choice

What is the minimum score to pass the exam? 70%

Class II
WW

Is your certification program mandatory? yes

Is this license(s) valid at this time? yes

Will your program grant reciprocity to all South Dakota water and wastewater operators if minimum requirements are met? Note-South Dakota will grant reciprocity on a case-by-case basis. We compare the education/work experience requirements for your certificate with the requirements for our SD certificates. We do NOT review the education/experience of the operator himself. It is also required that your state will grant reciprocity to our operators coming to your state.

Yes, Indiana also grants reciprocity to states who have comparable
Comments requirements on a case-by-case basis.

Name and title of person completing this form-

Rebecca McMenigle
Certification Director

Please check which certificates your agency issues-

☐ Water Treatment ☐ Water Distribution
☒ Wastewater Treatment ☐ Wastewater Collection

South Dakota's Operator Certification Law can be found at-
<http://legis.sd.gov/statutes/DisplayStatute.aspx?Type=Statute&Statute=34A-3>

Our regulations are contained within- <http://legis.sd.gov/rules/DisplayRule.aspx?Rule=74:21:02>

Feel free to write your answers on this sheet, and please include a copy of your regulations concerning Operator Certification. Please email or fax your reply if possible. If there are any questions on this matter, feel free to contact me in Pierre. Thank you for your help.

Sincerely,

Rob Kittay

Rob Kittay-Secretary
Board of Operator Certification
523 E Capitol
Pierre SD 57501
Phone: 605-773-4208
Fax: 605-773-5286
E-mail: rob.kittay@state.sd.us
Web Site: <http://denr.sd.gov/des/dw/opcertqa.aspx>

SOUTH DAKOTA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

APPLICATION FOR OPERATOR
CERTIFICATION THRU RECIPROCITYPAID
FEB 19 2019
Ck# 6842

INSTRUCTIONS TO APPLICANTS:

Application must be received by the Secretary at least FOUR WEEKS BEFORE THE NEXT MEETING OF THE BOARD OF OPERATOR CERTIFICATION. One certificate per application. Fax application to 605-773-5286 or mail application to:

Rob Kittay-Secretary
Board of Operator Certification
523 East Capitol-Foss Building
Pierre, SD 57501-3181

Applications for certification thru reciprocity are reviewed on a case-by-case basis by the Board of Operator Certification. Requirements for the certificate presently held in your state are compared to the requirements for the desired certificate in South Dakota. A copy of the certificate presently held should be included with the application. Each application must be accompanied by a check or money order for \$10.00 made out to "DENR". If you fax application, please submit fee through the mail.

GENERAL INFORMATION (Print legibly and fill out completely):

1. Name Waldroup James Larry
Last First Middle

2. Home Mailing Address 3981 East 500 South Greenfield, IN. 46140

3. Phone 317-448-5893 Fax _____

4. Email Address larry.waldroup@eolia.com

South Dakota Certificate Desired
(Check only one)

- ☐ Water Treatment
☐ Water Distribution
☐ Wastewater Treatment
☒ Wastewater Collection
☐ Small Water Treatment
☐ Small WW System/
Stabilization Pond

Certificate Level
(Check only one)

- ☐ I
☐ II
☒ III
☐ IV

5. Certificate Now Held Class C From Which State Indiana

6. Was an exam passed to acquire this certificate? Check one. Yes ☒ No ☐

7. Is this certificate valid with all fees up-to-date? Check one. Yes ☒ No ☐

EDUCATION AND TRAINING

Are you a high school graduate? Check one. Yes ☒ No ☐ GED ☐ If no, year completed _____

College/Vo-tech Name	Dates Attended	Major	Date Graduated

List other educational courses completed such as correspondence school, operators' short courses, etc. Give date, name, and location of such courses.

Completed courses at Ivy Tech for wastewater operators 1 and 2.

WATER/WASTEWATER OPERATION EXPERIENCE

Present Position Title Waste Treatment Operator Date Employed 8-13-2012

Supervisor Name and Title Scot George

Describe in detail your daily duties as related to the exam for which you are applying (Be Specific!)

Walk thru of plant to insure proper of equipment and repair if necessary. Jar test to determine proper chemical dosage. Clean and calibrate probes to ensure correct readings. Log all finding in daily log. Collect samples and analysis to ensure proper operation of plant and maintain compliance. Log all results in daily log. Repair and maintain all pumps in proper working order.

List other job experience which you feel will pertain to your certification qualifications.

Dates	Employer Name/Location	Specific Job Duties Related to Exam Applied For
See attached resur		

I hereby certify that this application contains no willful misrepresentations or falsifications and that the information given is true and complete.

Signature *James Harry Waldron* Date 2-14-19

Oper#	3662 12765
Cert Date	
Reciprocity Approved	Yes <input type="checkbox"/> No <input type="checkbox"/>
Cash	Check PD-6842
DENR Use Only	

5182 S. 400 E..
Greenfield, IN. 46140

Cell (317)448-5893
E-mail
waldroup1951@yahoo.com

James Larry Waldroup

Associations Indiana Industrial Operators Association

Indiana Water Pollution Association

Water Environment Federation

Certifications Indiana Class C Certification

IIOA Register Industrial Water Professional Master

I have a vast knowledge of wastewater treatment and several years experience in the field. I am looking to become a team player of a growing company with room for advancement. I have Indiana Class C Waste Water operators license, supervisory and management training, quality control in metal finishing, SPC training, J.I.T. inventory, P.C. Windows and PLC training. I have training in the operations and maintenance of boilers and steam system. I feel that punctuality is of the utmost importance and being at work when I am scheduled. I work well with my fellow employees and work well in stressful situations. I feel I would be a good candidate for any position.

2013 – Present Veolia Water and Tech. Vandallia, Ohio

Operate Waste water plant in various locations. Maintain equipment, and report to customer any problems with equipment or meeting permit limits, and suggest solutions. Work closely with engineering staff on changes to system.

2009 – 2010 Keihin(Spartan Staffing) Greenfield In.

Machine Operator

Ran various milling, cutting and grinding machines. Did routine cleaning and maintenance on the machine.

2001 – 2009 KS Bearings Inc. Greensburg In.

Environmental Health and Safety Coordinator

Summary of duties: Plans, directs and implements safety programs to ensure safe, healthy and accident-free work environment. Performs field and safety measurements, safety evaluations and hazardous waste evaluations. . Implements or recommends control measures for exposure to hazardous materials or conditions Develops or provides input to hazardous material communications, including material safety data sheets. Plans and implements safety policies and procedures in compliance with local, state and federal OSHA rules and regulations. Oversee the wastewater treatment facility. Responsible for the generating,

handling and disposal of all hazardous waste in accordance with all local, state and federal laws.

Employment

1996 – 1997

Envirosolve Environmental Management

Operations Manager Water Treatment Facility

- Duties included implementing the new treatment system, establishing procedures of operation, and training operators for daily operation. Other duties included overseeing contractors in the installation of boiler and steam systems, operation and maintenance of boiler/ steam system, and equipment. Responsibilities also included purchasing chemicals for treatment process and boiler, troubleshooting of system, and sampling and preparing reports for submittal to proper agencies. REMEDIATION DEPT: Site superintendent, Overseeing personnel and subcontractors, procuring equipment and materials, and meeting with clients to establish scope and parameters of work.

Employment

1993 - 1996

Indianapolis Drum Service Indianapolis, IN

Operator in charge of Waste Water Plant

- Responsibilities included troubleshooting system and equipment, sampling and preparing reports for submittal to proper agencies, operation/maintenance of boiler/steam systems (through chemical addition and testing), and supervision and creation of water reuse program. Other duties included evaluating chemicals, suppliers, and equipment, preparing weekly reports showing water usage and production comparison, inventory control.

Employment

1977 - 1993

Roll Coater Inc.

Greenfield, In.

Quality Control Supervisor

- Responsibilities included, supervision of employees involved in the sampling and testing of the pre-painted metal, of the employees involved in the chemical testing of the prep section of the operation, also the employees involved in the waste treatment area. Also was involved in training employees in the different areas. Involved in the troubleshooting of problems in the paint systems. Was involved in 2 modification of the waste treatment system at the Kingsbury In, plant and the ground up construction of the waste treatment plant at the Greenfield, In. Also wrote the operation manual for the waste treatment at Kingsbury, In. plant. While employed with Roll Coater, attended several course on strengthening supervisory skills, JIT Inventory Control, SPC. Also involved in insuring employees adhered to all safety procedures.

Education

Ivy Tech

Indianapolis, IN.

- Waste Water Treatment Operations one and two



INDIANA INDUSTRIAL OPERATORS
ASSOCIATION, INC. (IIOA)

James Waldroup, RIWP-M

IS A MEMBER IN GOOD STANDING

www.iiia.net

WATER QUALITY PROTECTOR!

Date Paid: 2-10-19



Department of Environmental Management
Office of Water Quality - IGCN Room 1255
100 N. Senate Ave.
Indianapolis, Indiana 46204-2251

Wastewater Operator Class C

Certification Number	Effective Date
WW009796	07/30/2018

James L. Waldroup

Certificate of Competency

This certifies that the person named above has fulfilled the requirements for certification as a wastewater treatment plant operator in accordance with IC 13-18-11 and is hereby certified as a Wastewater Operator Class C.

Bruno L. Pigott
Commissioner

employer; and

(C) is the result of satisfactory accomplishment of wastewater treatment plant work.

(d) In accordance with 327 IAC 8-12-3.2(e), a grade WT3, WT4, and WT5 operator shall be considered to have met the educational and experience requirements necessary to apply for the appropriate wastewater treatment certification to treat wastewater from a water treatment plant provided the operator is certified to operate that classification of water treatment plant. *(Water Pollution Control Division; 327 IAC 5-22-7; filed Nov 20, 2000, 4:07 p.m.: 24 IR 965; readopted filed Aug 17, 2006, 10:31 a.m.: 20060830-IR-327060183BFA; filed Mar 18, 2008, 2:55 p.m.: 20080416-IR-327060179FRA; readopted filed Jul 30, 2014, 4:04 p.m.: 20140827-IR-327140189BFA)*

327 IAC 5-22-7.3 Educational and experience requirements necessary for a certified operator

Authority: IC 13-14-8; IC 13-18-11-3; IC 13-18-11-13

Affected: IC 13-18-11

Sec. 7.3. Educational and experience requirements necessary to become a certified operator in each of the classes of wastewater treatment plants are as follows:

- (1) Class I-SP and Class A-SO certified operator applicants must have attained the following:
 - (A) A high school diploma or equivalent education.
 - (B) Six (6) months of acceptable experience in a wastewater treatment plant.
 - (2) Class I and Class A certified operator applicants must have attained the following:
 - (A) A high school diploma or equivalent education.
 - (B) One (1) year of acceptable experience at a wastewater treatment plant.
 - (3) Class II and Class B certified operator applicants must have attained the following:
 - (A) A high school diploma or equivalent education.
 - (B) Three (3) years of acceptable experience at a wastewater treatment plant.
 - (4) Class III and Class C certified operator applicants must have attained the following:
 - (A) A high school diploma or equivalent education.
 - (B) Three (3) years of acceptable experience at a wastewater treatment plant of one (1) or more of the following classes:
 - (i) Class II.
 - (ii) Class III.
 - (iii) Class IV.
 - (iv) Class B.
 - (v) Class C.
 - (vi) Class D.
 - (C) Two (2) years of the three (3) years experience required by clause (B) must be in a position of responsible charge operator at a wastewater treatment plant of one (1) or more of the following classes:
 - (i) Class II.
 - (ii) Class III.
 - (iii) Class IV.
 - (iv) Class B.
 - (v) Class C.
 - (vi) Class D.
- In Class III and Class C plants, the individual supervising and responsible for a major section of the plant or an operating shift may be credited with experience as responsible charge operator for the purpose of applying to take the certification examination.
- (5) Class IV and Class D certified operator applicants must have attained the following:
 - (A) One (1) or more of the following educational degrees:
 - (i) A bachelor's degree with a major in an engineering, chemistry, or biological science curriculum.
 - (ii) An associate's degree in a curriculum related to wastewater treatment.